

BBBBBBBBBBBBBB		AAAAAAAAAA	CCCCCCCCCCCC	KKK	KKK	UUU	UUU	PPPPPPPPPPPP	
BBBBBBBBBBBBBB		AAAAAAAAAA	CCCCCCCCCCCC	KKK	KKK	UUU	UUU	PPPPPPPPPPPP	
BBBBBBBBBBBBBB		AAAAAAAAAA	CCCCCCCCCCCC	KKK	KKK	UUU	UUU	PPPPPPPPPPPP	
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	PPP
BBBBBBBBBBBBBB		AAA	AAA	CCC	KKKKKKKKKK	UUU	UUU	PPPPPPPPPPPP	
BBBBBBBBBBBBBB		AAA	AAA	CCC	KKKKKKKKKK	UUU	UUU	PPPPPPPPPPPP	
BBBBBBBBBBBBBB		AAA	AAA	CCC	KKKKKKKKKK	UUU	UUU	PPPPPPPPPPPP	
BBB	BBB	AAAAAAAAAAAAAAAA	CCC	KKK	KKK	UUU	UUU	PPP	
BBB	BBB	AAAAAAAAAAAAAAAA	CCC	KKK	KKK	UUU	UUU	PPP	
BBB	BBB	AAAAAAAAAAAAAAAA	CCC	KKK	KKK	UUU	UUU	PPP	
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP	
BBBBBBBBBBBBBB		AAA	AAA	CCCCCCCCCCCC	KKK	UUUUUUUUUUUUUUUU	UUU	PPP	
BBBBBBBBBBBBBB		AAA	AAA	CCCCCCCCCCCC	KKK	UUUUUUUUUUUUUUUU	UUU	PPP	
BBBBBBBBBBBBBB		AAA	AAA	CCCCCCCCCCCC	KKK	UUUUUUUUUUUUUUUU	UUU	PPP	



```
1 0001 0 MODULE LISTJOUR (%TITLE 'List a journal file'
2 0002 0 IDENT = 'V04-000'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY:
33 0033 1 Backup/Restore
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1 This module contains the routines that list a journal file.
37 0037 1
38 0038 1 ENVIRONMENT:
39 0039 1 VAX/VMS user mode.
40 0040 1 --
41 0041 1
42 0042 1 AUTHOR: M. Jack, CREATION DATE: 10-Apr-1981
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 V03-003 LY0490 Larry Yetto 21-MAY-1984 16:12
47 0047 1 Modify code to allow long directory names to be output.
48 0048 1
49 0049 1 V03-002 LY0464 Larry Yetto 1-FEB-1984 10:39
50 0050 1 Add support for journal file structure level 2. This new
51 0051 1 format add a flag longword to each file entry to enable us
52 0052 1 to flag the fact that only a file header was saved for a
53 0053 1 particular file.
54 0054 1
55 0055 1 V03-001 ACG0313 Andrew C. Goldstein, 12-Feb-1983 16:23
56 0056 1 Add routine subtitles
57 0057 1
```

LISTJOUR  
V04-000

List a journal file

L 1  
16-Sep-1984 00:10:02  
14-Sep-1984 11:53:55

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[BACKUP.SRC]LISTJOUR.B32;1

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:	58	0058	1	:	V02-002	MLJ0036	Martin L. Jack, 28-Aug-1981	17:38
:	59	0059	1	:			Change calling sequence to MATCH routine.	
:	60	0060	1	:				
:	61	0061	1	:	V02-001	MLJ0025	Martin L. Jack, 8-May-1981	13:36
:	62	0062	1	:			Implement selective journal listing.	
:	63	0063	1	:				
:	64	0064	1	:				
:	65	0065	1	:				

```

67 0066 1 REQUIRE 'SRC$:COMMON';
68 1172 1 LIBRARY 'SYSS$LIBRARY:STARLET';
69 1173 1 REQUIRE 'LIB$:BACKDEF';
70 1623 1
71 1624 1
72 1625 1 LINKAGE
73 1626 1     L_PS =          CALL: GLOBAL(P$=11);
74 1627 1
75 1628 1
76 1629 1 MACRO
77 1630 1     L_DECL =          EXTERNAL REGISTER P$ = 11: REF VECTOR %;
78 1631 1
79 1632 1
80 1633 1 FORWARD ROUTINE
81 1634 1     SELECT_FILE,          ! Evaluate selection criteria
82 1635 1     LIST_JOURNAL: NOVALUE;      ! Driver for journal file listing
83 1636 1
84 1637 1
85 1638 1 EXTERNAL ROUTINE
86 1639 1     MATCH,          ! Match file specifications
87 1640 1     OPEN_JOURNAL: NOVALUE,      ! Open a journal file
88 1641 1     READ_JOURNAL,      ! Read a journal record
89 1642 1     CLOSE_JOURNAL: NOVALUE,      ! Close a journal file
90 1643 1     LIST_FAO: L_PS NOVALUE,      ! Add information to line buffer
91 1644 1     LIST_EOL: L_PS NOVALUE;      ! Write line buffer to listing file
92 1645 1
93 1646 1
94 1647 1 G$DEFINE();          ! Define global common area
95 1648 1
96 1649 1
97 1650 1 MACRO
98 1651 1     FAO_(A)=
99 1652 1     -LIST_FAO(
100 1653 1         OPLIT BYTE (%ASCIC A)
101 1654 1         %IF NOT %NULL(%REMAINING) %THEN , %F1 %REMAINING) %,
102 1655 1
103 1656 1
104 1657 1 EOL_(A)=
105 1658 1     -LIST_EOL() %;
106 1659 1
107 1660 1
108 1661 1 MACRO
109 1662 1     _LIST_DESC= P$[0] %,          ! Descriptor for buffer
110 1663 1     -LIST_BUFFER= P$[2] %,          ! Listing buffer
111 1664 1     _LIST_DESC(N)= VECTOR[_LIST_DESC,N] %;
112 1665 1
113 1666 1
114 1667 1 LITERAL
115 1668 1     P$SIZE=          2 + CH$ALLOCATION(LIST_SIZE);
```

```
117 1669 1 %SBTTL 'SELECT_FILE - select file from journal'
118 1670 1 ROUTINE SELECT_FILE(NAME,CREDATE)=
119 1671 1
120 1672 1 !++
121 1673 1
122 1674 1 FUNCTIONAL DESCRIPTION:
123 1675 1 This routine evaluates the selection criteria for a file specification
124 1676 1 retrieved from a journal file.
125 1677 1
126 1678 1 INPUT PARAMETERS:
127 1679 1 NAME - Descriptor for file specification "[dir]nam.typ;ver".
128 1680 1 CREDATE - Pointer to quadword time value.
129 1681 1
130 1682 1 IMPLICIT INPUTS:
131 1683 1 NONE
132 1684 1
133 1685 1 OUTPUT PARAMETERS:
134 1686 1 NONE
135 1687 1
136 1688 1 IMPLICIT OUTPUTS:
137 1689 1 NONE
138 1690 1
139 1691 1 ROUTINE VALUE:
140 1692 1 True if the file specification is selected, false otherwise.
141 1693 1
142 1694 1 SIDE EFFECTS:
143 1695 1 NONE
144 1696 1
145 1697 1 !--
146 1698 1
147 1699 2 BEGIN
148 1700 2 MAP
149 1701 2 CREDATE: REF VECTOR;
150 1702 2
151 1703 2
152 1704 2 ! BEFORE
153 1705 2
154 1706 2 IF .QUAL[QUAL_BEFO] AND NOT .QUAL[QUAL_BEFO_BACK]
155 1707 2 THEN
156 1708 3 BEGIN
157 1709 3 IF .CREDATE[1] GTRU .VECTOR[QUAL[QUAL_BEFO_VALUE], 1] THEN RETURN FALSE;
158 1710 3 IF .CREDATE[1] EQLU .VECTOR[QUAL[QUAL_BEFO_VALUE], 1] AND .CREDATE[0] GEQU .VECTOR[QUAL[QUAL_BEFO_VALUE]
159 1711 2 END;
160 1712 2
161 1713 2
162 1714 2 ! SINCE
163 1715 2
164 1716 2 IF .QUAL[QUAL_SINC] AND NOT .QUAL[QUAL_SINC_BACK]
165 1717 2 THEN
166 1718 3 BEGIN
167 1719 3 IF .CREDATE[1] LSSU .VECTOR[QUAL[QUAL_SINC_VALUE], 1] THEN RETURN FALSE;
168 1720 3 IF .CREDATE[1] EQLU .VECTOR[QUAL[QUAL_SINC_VALUE], 1] AND .CREDATE[0] LSSU .VECTOR[QUAL[QUAL_SINC_VALUE]
169 1721 2 END;
170 1722 2
171 1723 2
172 1724 2 ! EXCLUDE
173 1725 2 !
```

```
174 1726 2 IF .QUAL[QUAL_EXCL]
175 1727 2 THEN
176 1728 3 BEGIN
177 1729 3 LOCAL
178 1730 3 EXCL: REF BBLOCK;
179 1731 3
180 1732 3 EXCL = .QUAL[QUAL_EXCL_LIST];
181 1733 3 WHILE .EXCL NEQ 0 DO
182 1734 4 BEGIN
183 1735 4 IF MATCH(.NAME, EXCL[QUAL_EXCL_DESC]) THEN RETURN FALSE;
184 1736 4 EXCL = .EXCL[QUAL_NEXT];
185 1737 3 END;
186 1738 2 END;
187 1739 2
188 1740 2
189 1741 2 ! SELECT
190 1742 2
191 1743 2 IF .QUAL[QUAL_SELE]
192 1744 2 THEN
193 1745 3 BEGIN
194 1746 3 LOCAL
195 1747 3 SELE: REF BBLOCK;
196 1748 3
197 1749 3 SELE = .QUAL[QUAL_SELE_LIST];
198 1750 3 IF
199 1751 4 BEGIN
200 1752 4 WHILE .SELE NEQ 0 DO
201 1753 5 BEGIN
202 1754 5 IF MATCH(.NAME, SELE[QUAL_SELE_DESC]) THEN EXITLOOP FALSE;
203 1755 5 SELE = .SELE[QUAL_NEXT];
204 1756 5 END
205 1757 4 END
206 1758 3 THEN
207 1759 3 RETURN FALSE;
208 1760 2 END;
209 1761 2
210 1762 2
211 1763 2 TRUE
212 1764 1 END;
```

.TITLE LISTJOUR List a journal file  
.IDENT \V04-000\

.PSECT COMMON,NOEXE, OVR,2

00000 GLOBAL\_BASE:  
          .BLKB 0  
00000 FREE\_LIST:  
          .BLKB 8  
00008 INPUT\_WAIT:  
          .BLKB 8  
00010 REREAD\_WAIT:  
          .BLKB 8  
00018 OUTPUT\_WAIT:  
          .BLKB 8  
00020 JPI\_UIC:.BLKB 4

LISTJOUR  
V04-000

List a journal file  
SELECT\_FILE - select file from journal

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00024 JPI\_USERNAME:  
.BLKB 12  
00030 JPI\_DATE:  
.BLKB 8  
00038 JPI\_NODE\_DESC:  
.BLKB 8  
00040 JPI\_CURPRIV:  
.BLKB 8  
00048 SYI\_VERSION:  
.BLKB 4  
0004C SYI\_SID:.BLKB 4  
00050 RWSV\_HOLD\_LIST:  
.BLKB 8  
00058 RWSV\_CRC16:  
.BLKB 64  
00098 RWSV\_AUTODIN:  
.BLKB 64  
000D8 RWSV\_FILESET\_ID:  
.BLKB 8  
000E0 RWSV\_VOLUME\_ID:  
.BLKB 12  
000EC RWSV\_VOL\_NUMBER:  
.BLKB 2  
000EE RWSV\_SEG\_NUMBER:  
.BLKB 2  
000F0 RWSV\_FILE\_NUMBER:  
.BLKB 4  
000F4 RWSV\_SAVE\_QUAL:  
.BLKB 4  
000F8 RWSV\_SAVE\_FAB:  
.BLKB 4  
000FC RWSV\_CHAN:  
.BLKB 4  
00100 RWSV\_XOR\_BCB:  
.BLKB 4  
00104 RWSV\_IN\_SEQ:  
.BLKB 4  
00108 RWSV\_IN\_SEQ\_0:  
.BLKB 4  
0010C RWSV\_IN\_XOR\_SEQ:  
.BLKB 4  
00110 RWSV\_IN\_XOR\_RFA:  
.BLKB 6  
00116 RWSV\_LOOKAHEAD:  
.BLKB 1  
00117 RWSV\_XOR\_SIZE:  
.BLKB 1  
00118 RWSV\_IN\_GROUP\_SIZE:  
.BLKB 4  
0011C RWSV\_IN\_ERRORS:  
.BLKB 2  
0011E RWSV\_IN\_XORUSE:  
.BLKB 2  
00120 RWSV\_IN\_ORGERR:  
.BLKB 8  
00128 RWSV\_IN\_VBN:  
.BLKB 4

0012C	RWSV_IN_VBN 0:	
	.BLKB	4
00130	RWSV_ALLOC:	
	.BLKB	4
00134	RWSV_EOF:	
	.BLKB	4
00138	RWSV_OUT_SEQ:	
	.BLKB	4
0013C	RWSV_OUT_VBN:	
	.BLKB	4
00140	RWSV_OUT_BLOCK_COUNT:	
	.BLKB	4
00144	RWSV_OUT_ERRORS:	
	.BLKB	2
00146	RWSV_SEQ_ERRORS:	
	.BLKB	2
00148	RWSV_OUT_GROUP_COUNT:	
	.BLKB	1
00149	RWSV_PADDING:	
	.BLKB	3
0014C	QUAL:	112
001BC	COM_SSNAME:	
	.BLKB	8
001C4	COM_VALID_TYPES:	
	.BLKB	2
001C6	COM_FLAGS:	
	.BLKB	2
001C8	COM_PADDING:	
	.BLKB	1
001C9	COM_BUFF_COUNT:	
	.BLKB	1
001CA	COM_I_SETCOUNT:	
	.BLKB	1
001CB	COM_O_SETCOUNT:	
	.BLKB	1
001CC	COM_I_STRUCNAME:	
	.BLKB	12
001D8	COM_O_STRUCNAME:	
	.BLKB	12
001E4	COM_O_BSRDATE:	
	.BLKB	8
001EC	ALT_SSNAME:	
	.BLKB	32
0020C	INPUT_FUNC:	
	.BLKB	1
0020D	INPUT_RTYPE:	
	.BLKB	1
0020E	OUTPUT_FUNC:	
	.BLKB	1
0020F	FAST_STRUCLEV:	
	.BLKB	1
00210	INPUT_BEG:	
	.BLKB	0
00210	INPUT_CHAN:	
	.BLKB	4
00214	INPUT_FLAGS:	
	.BLKB	2

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List a journal file  
SELECT\_FILE - select file from journal

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00216	INPUT_PADDING:	
	.BLKB	2
00218	INPUT_FAB:	
	.BLKB	4
0021C	INPUT_NAM:	
	.BLKB	4
00220	INPUT_BCB:	
	.BLKB	4
00224	INPUT_QUAL:	
	.BLKB	4
00228	INPUT_BAD:	
	.BLKB	4
0022C	INPUT_BLOCK:	
	.BLKB	4
00230	INPUT_MAXBLOCK:	
	.BLKB	4
00234	INPUT_MEDIA_ID:	
	.BLKB	4
00238	INPUT_NAMEDESC:	
	.BLKB	8
00240	INPUT_STATBLK:	
	.BLKB	8
00248	INPUT_HDR_BEG:	
	.BLKB	0
00248	INPUT_CREDATE:	
	.BLKB	8
00250	INPUT_REVDATE:	
	.BLKB	8
00258	INPUT_EXPDATE:	
	.BLKB	8
00260	INPUT_BAKDATE:	
	.BLKB	8
00268	INPUT_FILEOWNER:	
	.BLKB	4
0026C	INPUT_FILECHAR:	
	.BLKB	4
00270	INPUT_RECATTR:	
	.BLKB	32
00290	INPUT_HDR_END:	
	.BLKB	0
00290	INPUT_END:	
	.BLKB	0
00290	INPUT_PROC_LIST:	
	.BLKB	4
00294	INPUT_PLACEMENT:	
	.BLKB	8
0029C	INPUT_VBN_LIST:	
	.BLKB	8
002A4	INPUT_PLACE_LEN:	
	.BLKB	2
002A6	INPUT_PADDING_2:	
	.BLKB	2
002A8	OUTPUT_BEG:	
	.BLKB	0
002A8	OUTPUT_CHAN:	
	.BLKB	4
002AC	OUTPUT_FLAGS:	

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List a journal file  
SELECT\_FILE - select file from journal

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002AE	OUTPUT_PADDING:	.BLKB	2
002B0	OUTPUT_FAB:	.BLKB	2
002B4	OUTPUT_NAM:	.BLKB	4
002B8	OUTPUT_BCB:	.BLKB	4
002BC	OUTPUT_QUAL:	.BLKB	4
002C0	OUTPUT_BAD:	.BLKB	4
002C4	OUTPUT_BLOCK:	.BLKB	4
002C8	OUTPUT_MAXBLOCK:	.BLKB	4
002CC	OUTPUT_DEVGEO:	.BLKB	8
002D4	OUTPUT_ATTBUF:	.BLKB	144
00364	OUTPUT_END:	.BLKB	0
00364	LIST_TOTFILES:	.BLKB	4
00368	LIST_TOTSIZE:	.BLKB	4
0036C	VERIFY_FAB:	.BLKB	4
00370	VERIFY_USE_COUNT:	.BLKB	4
00374	VERIFY_QUAL:	.BLKB	4
00378	COMPARE_BCB:	.BLKB	4
0037C	FAST_BUFFER:	.BLKB	4
00380	FAST_BUFFER_SIZE:	.BLKB	4
00384	FAST_RVN:	.BLKB	1
00385	FAST_PADDING:	.BLKB	1
00386	DIR_VERLIMIT:	.BLKB	2
00388	FAST_VOL_BEG:	.BLKB	0
00388	FAST_IMAP_SIZE:	.BLKB	4
0038C	FAST_IMAP:	.BLKB	4
00390	FAST_HDR_OFFSET:	.BLKB	4
00394	FAST_BOOT_LBN:	.BLKB	4
00398	FAST_VOL_END:	.BLKB	0

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List a journal file  
SELECT\_FILE - select file from journal

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00398	JOUR_BUFFER:	
	.BLKB	4
0039C	JOUR_DIR:	
	.BLKB	4
003A0	JOUR_HIBLK:	
	.BLKB	4
003A4	JOUR_EFBLK:	
	.BLKB	4
003A8	JOUR_INBLK:	
	.BLKB	4
003AC	JOUR_FFBYTE:	
	.BLKB	2
003AE	JOUR_INBYTE:	
	.BLKB	2
003B0	JOUR_STRUCT_LEV:	
	.BLKB	2
003B2	JOUR_COUNT:	
	.BLKB	1
003B3	JOUR_REVERSE:	
	.BLKB	1
003B4	JOUR_EXSZ:	
	.BLKB	2
003B6	JOUR_PADDING:	
	.BLKB	2
003B8	CHKPT_HIGH_SP:	
	.BLKB	4
003BC	CHKPT_LOW_SP:	
	.BLKB	4
003C0	CHKPT_STACK:	
	.BLKB	4
003C4	CHKPT_VARS:	
	.BLKB	4
003C8	CHKPT_STATUS:	
	.BLKB	4
003CC	DIR_BEG:	
	.BLKB	0
003CC	DIR_CHAN:	
	.BLKB	4
003D0	DIR_NAM:	
	.BLKB	4
003D4	DIR_DEV_DESC:	
	.BLKB	4
003D8	DIR_SEL_DIR:	
	.BLKB	8
003E0	DIR_SEL_NTV:	
	.BLKB	8
003E8	DIR_STRUCLEV:	
	.BLKB	1
003E9	DIR_LEVELS:	
	.BLKB	1
003EA	DIR_FLAGS:	
	.BLKB	1
003EB	DIR_STATUS:	
	.BLKB	1
003EC	DIR_STRING:	
	.BLKB	320
0052C	DIR_STACK:	
	.BLKB	612
00790	DIR_SP:	
	.BLKB	4

List a journal file  
SELECT\_FILE - select file from journal

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00794	DIR_SEL_LATEST:	
	.BLKB	4
00798	DIR_END:	0
00798	DIR_SCANLIMIT:	
	.BLKB	36
007BC	INPUT_MTL:	
	.BLKB	4
007C0	OUTPUT_MTL:	
	.BLKB	4
007C4	CURRENT_MTL:	
	.BLKB	4
007C8	CURRENT_VCB:	
	.BLKB	4
007CC	CURRENT_WCB:	
	.BLKB	4
007D0	ACL_FIB_DESCR:	
	.BLKB	8
007D8	ACL_FIB:	64
00818	ACL_LENGTH:	
	.BLKB	4
0081C	ACL_BUFFER:	
	.BLKB	4
00820	CRYP_IN_CONTEXT:	
	.BLKB	4
00824	CRYP_OU_CONTEXT:	
	.BLKB	4
00828	CRYP_DA_CONTEXT:	
	.BLKB	4
0082C	CRYP_DATA_ENCIV:	
	.BLKB	8
00834	CRYP_DATA_CODE:	
	.BLKB	4
00838	CRYP_DATA_KEY:	
	.BLKB	8
00840	CRYP_DATA_IV:	
	.BLKB	8
00848	CRYP_DATA_CKSM:	
	.BLKB	4

```
.EXTRN MATCH, OPEN JOURNAL
.EXTRN READ_JOURNAL, CLOSE_JOURNAL
.EXTRN LIST_FAO, LIST_EOL
```

```
.PSECT CODE,NOWRT,2
```

001C 00000 SELECT\_FILE:

17	54	00000000G	00	9E	00002	WORD	Save R2,R3,R4
	53	000000000'	EF	9E	00009	MOVAB	MATCH, R4
13	63		02	E1	00010	MOVAB	QUAL+8, R3
	63		03	E0	00014	BBC	#2, QUAL+8, 1\$
	50	08	AC	D0	00018	BBS	#3, QUAL+8, 1\$
	OC	A3	04	A0	0001C	MOVL	CRDATE, R0
				5D	1A	CMPL	4(R0), QUAL+20
				06	12	BGTRU	6\$
	08	A3	60	D1	00025	BNEQ	1\$
			55	1E	00029	CMPL	(R0), QUAL+16
						BGEQU	6\$

1670  
1706  
1709  
1710

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List a journal file  
SELECT\_FILE - select file from journal

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18	05	A3	04	E1	0002B	1\$:	BBC	#4, QUAL+13, 2\$	1716
13	05	A3	05	E0	00030		BBS	#5, QUAL+13, 2\$	
		50	08	AC	D0	00035	MOVL	CRDATE, R0	1719
	1C	A3	04	A0	D1	00039	CMPL	4(R0), QUAL+36	
				40	1F	0003E	BLSSU	6\$	
				06	12	00040	BNEQ	2\$	1720
	18	A3		60	D1	00042	CMPL	(R0), QUAL+32	
				38	1F	00046	BLSSU	6\$	
17	01	A3		04	E1	00048	2\$:	BBC	#4, QUAL+9, 4\$
		52	28	A3	D0	0004D	MOVL	QUAL+48, EXCL	1726
				11	13	00051	3\$:	BEQL	4\$
			04	A2	9F	00053	PUSHAB	4(EXCL)	1732
			04	AC	DD	00056	PUSHL	NAME	1733
		64		02	FB	00059	CALLS	#2, MATCH	
		21		50	E8	0005C	BLBS	R0, 6\$	
		52		62	D0	0005F	MOVL	(EXCL), EXCL	1736
				ED	11	00062	BRB	3\$	1733
1A	05	A3		03	E1	00064	4\$:	BBC	#3, QUAL+13, 7\$
		52	3C	A3	D0	00069	MOVL	QUAL+68, SELE	1743
				11	13	0006D	5\$:	BEQL	6\$
			04	A2	9F	0006F	PUSHAB	4(SELE)	1749
			04	AC	DD	00072	PUSHL	NAME	1752
		64		02	FB	00075	CALLS	#2, MATCH	
		08		50	E8	00078	BLBS	R0, 7\$	
		52		62	D0	0007B	MOVL	(SELE), SELE	1755
				ED	11	0007E	BRB	5\$	1752
				50	D4	00080	6\$:	CLRL	R0
				04	00082		RET		1759
		50		01	D0	00083	7\$:	MOVL	#1, R0
				04	00086		RET		1764

; Routine Size: 135 bytes, Routine Base: CODE + 0000

```
214 1765 1 %SBTTL 'LIST_JOURNAL - main journal list routine'
215 1766 1 GLOBAL ROUTINE LIST_JOURNAL: NOVALUE=
216 1767 1
217 1768 1 !++
218 1769 1
219 1770 1 FUNCTIONAL DESCRIPTION:
220 1771 1 This routine is the driver for listing of a journal file.
221 1772 1
222 1773 1 INPUT PARAMETERS:
223 1774 1 NONE
224 1775 1
225 1776 1 IMPLICIT INPUTS:
226 1777 1 NONE
227 1778 1
228 1779 1 OUTPUT PARAMETERS:
229 1780 1 NONE
230 1781 1
231 1782 1 IMPLICIT OUTPUTS:
232 1783 1 NONE
233 1784 1
234 1785 1 ROUTINE VALUE:
235 1786 1 NONE
236 1787 1
237 1788 1 SIDE EFFECTS:
238 1789 1 NONE
239 1790 1
240 1791 1 !--
241 1792 1
242 1793 2 BEGIN
243 1794 2 LITERAL
244 1795 2 STR_LENGTH = %CHARCOUNT(' file header only'),
245 1796 2 BUFFER_LENGTH = BJJ$C_DIR_LEN + BJJ$S_FILENAME + STR_LENGTH ;
246 1797 2
247 1798 2
248 1799 2 LOCAL
249 1800 2 STR: LONG INITIAL(UPBIT BYTE (' file header only')),
250 1801 2 FAB: REF BBLOCK, ! Pointer to FAB for journal file
251 1802 2 BUFFER: BBLOCK[BUFFER_LENGTH], ! Record buffer
252 1803 2 SSNAME_LEN: LONG INITIAL(0), ! Length of SSNAME
253 1804 2 SSNAME: BBLOCK[BJJ$C_SSNAME_LEN], ! SSNAME buffer
254 1805 2 VOLUME: BBLOCK[BJJ$C_VOLUME_LEN], ! VOLUME buffer
255 1806 2 DIR_LEN: LONG INITIAL(0), ! Length of DIRECTORY
256 1807 2 DIRECTORY: BBLOCK[BJJ$C_DIR_LEN], ! DIRECTORY buffer
257 1808 2 CHANGE, ! True if SSNAME or VOLUME changed
258 1809 2 PSAREA: VECTOR[P$SIZE]; ! Impure area
259 1810 2 GLOBAL REGISTER
260 1811 2 P$ = 11: REF VECTOR; ! Impure area base register
261 1812 2
262 1813 2
263 1814 2 ! Initialize impure area.
264 1815 2 !
265 1816 2 P$ = PSAREA;
266 1817 2 LIST_DESC[0] = LIST_SIZE;
267 1818 2 LIST_DESC[1] = _LIST_BUFFER;
268 1819 2
269 1820 2
270 1821 2 ! Do the listing.
```

```
271 1822 2 !
272 1823 2 ! OPEN_JOURNAL(FALSE, FALSE);
273 1824 2
274 1825 2
275 1826 2 ! Heading.
276 1827 2
277 1828 2 FAB = .QUAL[QUAL_JOUR_FC];
278 1829 2 FAO_ ('Journal file !AD on !%D',
279 1830 2 .BBLOCK[FAB[FC_NAM], NAMS$B_RSL],
280 1831 2 .BBLOCK[FAB[FC_NAM], NAMS$L_RSA],
281 1832 2 0);
282 1833 2 EOL_();
283 1834 2
284 1835 2
285 1836 2 ! Read all records of the journal file to produce the listing.
286 1837 2
287 1838 2 CHANGE = FALSE;
288 1839 2 WHILE READ_JOURNAL(BUFFER) DO
289 1840 3 BEGIN
290 1841 3 CASE .BUFFER[BJL$B_TYPE] FROM BJL$K_SSNAME TO BJL$K_FILE OF
291 1842 3 SET
292 1843 3
293 1844 3
294 1845 3 [BJL$K_SSNAME]:
295 1846 4 BEGIN
296 1847 4
297 1848 4 ! Save the SSNAME record in a local.
298 1849 4
299 1850 4 IF .BUFFER[BJL$B_SIZE] LEQU BJL$C_SSNAME_LEN+1
300 1851 4 THEN
301 1852 5 BEGIN
302 1853 5 SSNAME_LEN = .BUFFER[BJL$B_SIZE] - 1;
303 1854 5 CH$MOVE(.SSNAME_LEN, BUFFER[BJL$B_DATA], SSNAME);
304 1855 5 CHANGE = TRUE;
305 1856 4 END;
306 1857 3 END;
307 1858 3
308 1859 3 [BJL$K_VOLUME]:
309 1860 4 BEGIN
310 1861 4
311 1862 4 ! Save the VOLUME record in a local.
312 1863 4
313 1864 4 IF .BUFFER[BJL$B_SIZE] EQLU BJL$C_VOLUME_LEN+1
314 1865 4 THEN
315 1866 5 BEGIN
316 1867 5 CH$MOVE(BJL$C_VOLUME_LEN, BUFFER[BJL$B_DATA], VOLUME);
317 1868 5 CHANGE = TRUE;
318 1869 4 END;
319 1870 3 END;
320 1871 3
321 1872 3 [BJL$K_DIRECTORY]:
322 1873 4 BEGIN
323 1874 4
324 1875 4 ! Save the DIRECTORY record in a local.
325 1876 4
326 1877 4
327 1878 4
```

```
328      1879 4      IF .BUFFER[BJL$B_SIZE] LEQU BJL$C_DIR_LEN+1
329      1880 4      THEN
330      1881 5          BEGIN
331      1882 5              DIR_LEN = .BUFFER[BJL$B_SIZE] - 1;
332      1883 5              CH$MOVE(.DIR_LEN, BUFFER[BJL$B_DATA], DIRECTORY);
333      1884 4              END;
INFO#252      L1:1879
Test expression is always true
334      1885 3      END;
335      1886 3
336      1887 3
337      1888 3      [BJL$K_FILE]:
338      1889 4      BEGIN
339      1890 4      LOCAL
340      1891 4          BUFF_SIZE      : WORD
341      1892 4          BUFF_FLAGS      : BBLOCK [4] ,
342      1893 4          NAME_DESC      : VECTOR[2];      ! Descriptor for name string
343      1894 4
344      1895 4
345      1896 4      BUFF_SIZE = .BUFFER [ BJL$B_SIZE ] ;
346      1897 4
347      1898 4      IF .JOUR_STRUCT_LEV GTRU BJL$K_LEVEL1
348      1899 4      THEN
349      1900 5          BEGIN
350      1901 5              ! Adjust the name size to remove the flag longword
351      1902 5              !
352      1903 5              BUFF_SIZE = .BUFF_SIZE - 4 ;
353      1904 5              !
354      1905 5              ! Get the flags longword ( size +1 to skip size field )
355      1906 5              !
356      1907 5              BUFF_FLAGS = .BUFFER [.BUFF_SIZE+1,0,32,0] ;
357      1908 5              END
358      1909 4      ELSE
359      1910 4          BUFF_FLAGS = 0 ;
360      1911 4
361      1912 4      ! Assemble the complete name string.
362      1913 4      !
363      1914 4      NAME_DESC[1] = BUFFER[0,0,0,0];
364      1915 4      NAME_DESC[0] = .BUFF_SIZE
365      1916 4          - 1      ! Adjust for size field
366      1917 4          + .DIR_LEN ! Add in directory name length
367      1918 4          + 2 ;      ! Adjust for '['
368      1919 4
369      1920 4      CH$COPY(
370      1921 4          .BUFF_SIZE - 1,
371      1922 4          BUFFER[BJL$B_DATA],
372      1923 4          %C' ',
373      1924 4          BUFFER + BUFFER LENGTH - BUFFER[.DIR_LEN+2,0,0,0],
374      1925 4          BUFFER[.DIR_LEN+2,0,0,0]);
375      1926 4      CH$MOVE(
376      1927 4          .DIR_LEN,
377      1928 4          DIRECTORY,
378      1929 4          BUFFER[1,0,0,0]);
379      1930 4      BUFFER[0,0,8,0] = %C'[';
380      1931 4      BUFFER[.DIR_LEN+1,0,8,0] = %C']';
381      1932 4
382      1933 4      IF .BUFF_FLAGS[BJL$V_HEADONLY]
```

```
383      1934  4      THEN
384      1935  5      BEGIN
385      1936  5      CH$COPY ( STR_LENGTH,
386      1937  5      .STR,
387      1938  5      %C',
388      1939  5      BUFFER_LENGTH = .NAME_DESC[0],
389      1940  5      BUFFER[.NAME_DESC[0],0,8,0]);
390      1941  5      NAME_DESC[0] = .NAME_DESC[0] + STR_LENGTH ;
391      1942  4      END;
392      1943  4
393      1944  4      ! Write the name string, if the selection criteria are satisfied.
394      1945  4
395      1946  4      IF SELECT_FILE(NAME_DESC, SSNAME[BJL$Q_CREDATE])
396      1947  4      THEN
397      1948  5      BEGIN
398      1949  5
399      1950  5      ! If the save set or the volume number has changed since the
400      1951  5      ! last line, write the new information.
401      1952  5
402      1953  5      IF .CHANGE
403      1954  5      THEN
404      1955  6      BEGIN
405      1956  6      EOL ();
406      1957  6      FAO-('
407      1958  6      'Save set !AD created on !XD',
408      1959  6      .SSNAME_LEN - $BYTEOFFSET(BJL$T_SSNAME),
409      1960  6      SSNAME[BJL$T_SSNAME],
410      1961  6      SSNAME[BJL$Q_CREDATE]);
411      1962  6      EOL ();
412      1963  6      FAO-('
413      1964  6      'Volume number !UW, volume label !AD',
414      1965  6      .VOLUME[BJL$W_VOLNUMBER],
415      1966  6      BJL$S_VOLNAME,
416      1967  6      (IF .(VOLUME[BJL$T_VOLNAME])<0,8> GTRU %C' '
417      1968  6      THEN VOLUME[BJL$T_VOLNAME]
418      1969  6      ELSE UPLIT BYTE ('unknown ')));
419      1970  6      EOL ();
420      1971  6      CHANGE = FALSE;
421      1972  5      END;
422      1973  5
423      1974  5
424      1975  5      ! Write the file specification.
425      1976  5
426      1977  5      FAO-(' !AS', NAME_DESC);
427      1978  5      EOL ();
428      1979  4      END;
429      1980  3      END;
430      1981  3
431      1982  3      [INRANGE, OUTRANGE]:
432      1983  3      0;
433      1984  3
434      1985  3
435      1986  3
436      1987  3      TES;
437      1988  2      END;
438      1989  2      CLOSE_JOURNAL (FALSE);
439      1990  1      END;
```

```
6E 6F 20 72 65 64 61 65 68 20 65 6C 69 66 20 00087 P.AAA: .ASCII \ file header only\
21 20 65 6C 69 66 20 6C 61 6E 72 75 6F 4A 17 00096 P.AAB: .ASCII <23>\Journal file !AD on !%D\
63 20 44 41 21 20 74 65 73 20 65 76 61 53 1B 000A7 P.AAC: .ASCII <27>\Save set !AD created on !%D\
20 72 44 25 21 20 6E 6F 20 64 65 74 61 65 72 000B0 P.AAD: .ASCII \#Volume number !UW, volume label !AD\
62 61 6C 20 65 6D 75 6E 20 65 6D 75 6C 6F 56 23 000CC P.AAE: .ASCII \unknown \
20 20 20 20 20 20 6E 77 6F 6E 6B 6E 75 000DB P.AAF: .ASCII <7>\ !AS\
62 61 6C 20 65 6D 75 6E 20 65 6D 75 6C 6F 56 23 000EA
20 20 20 20 20 20 53 41 21 20 20 20 07 000FC
```

```
OFFC 00000 .ENTRY LIST_JOURNAL, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 1766
5E FC28 CE 9E 00002 MOVAB R10,R11
5A FF78 CF 9E 00007 MOVAB -984(SP), SP
59 D4 0000C CLRL P.AAA, STR 1793
56 D4 0000E CLRL SSNAME_LEN
5B 08 AE 9E 00010 CLRL DIR_LEN
6B 0100 8F 3C 00014 MOVAB PSAREA, PS 1816
04 AB 08 AB 9E 00019 MOVZWL #256, (PS) 1817
00000000G 00 02 FB 00020 MOVAB 8(R11), 4(PS) 1818
50 00000000' EF D0 00027 CLRL -(SP) 1823
0098 CO DD 00030 CALLS #2, OPEN_JOURNAL
0097 CO 9A 00034 MOVL QUAL+52, FAB 1828
FF57 CF 9F 00039 CLRL -(SP) 1832
7E 0098 CO 9A 00034 PUSHL 152(FAB)
00000000G 00 04 FB 0003D MOVZBL 151(FAB), -(SP)
00000000G 00 00 FB 00044 PUSHAB P.AAB
00000000G 00 57 D4 0004B CALLS #4, LIST_FAO
00000000G 00 FE70 CD 9F 0004D 1$: CALLS #0, LIST_EOL 1833
00000000G 00 01 FB 00051 CLRL CHANGE 1838
00000000G 00 50 E8 00058 PUSHAB BUFFER 1839
00000000G 00 03 50 E8 00058 CALLS #1, READ_JOURNAL
0047 0036 0022 FE71 CD 8F 0005E 2$: BLBS R0, 2$
00000000G 00 000A 00064 3$: BRW 16$
00000000G 00 000A 00064 CASEB BUFFER+1, #1, #3 1841
00000000G 00 000A 00064 .WORD 4$-3$,-
00000000G 00 000A 00064 5$-3$,-
00000000G 00 000A 00064 7$-3$,-
00000000G 00 000A 00064 8$-3$
00000000G 00 000A 00064 1$
00000000G 00 000A 00064 BRB 1$
00000000G 00 000A 00064 CMPB BUFFER, #41 1850
00000000G 00 000A 00064 BGTRU 1$
00000000G 00 000A 00064 MOVZBL BUFFER, SSNAME_LEN 1853
00000000G 00 000A 00064 DECL SSNAME_LEN
00000000G 00 000A 00064 MOVZBL SSNAME_LEN, BUFFER+2, SSNAME 1854
00000000G 00 000A 00064 BRB 6$ 1855
00000000G 00 000A 00064 CMPB BUFFER, #15 1865
00000000G 00 000A 00064 BNEQ 1$
00000000G 00 000A 00064 MOVZBL #14, BUFFER+2, VOLUME 1868
00000000G 00 000A 00064 MOVL #1, CHANGE 1869
00000000G 00 000A 00064 BRB 1$ 1841
```

			56	FE70	CD	9A	0009A	7\$:	MOVZBL	BUFFER, DIR_LEN	1882
						56	D7	0009F	DECL	DIR_LEN	1883
	0110	CE	FE72	CD		56	28	000A1	MOV3	DIR_LEN, BUFFER+2, DIRECTORY	1841
						A2	11	000A9	BRB	1\$	1896
			51	FE70	CD	9B	000AB	8\$:	MOVZBW	BUFFER, BUFF_SIZE	1898
		0101	8F	00000000	EF	B1	000B0		CMPW	JOUR_STRUCT_LEV, #257	1903
						10	1B	000B9	BLEQU	9\$	1907
			51			04	A2	000BB	SUBW2	#4, BUFF_SIZE	1907
			50			51	3C	000BE	MOVZWL	BUFF_SIZE, R0	
				FE71	CD	40	9F	000C1	PUSHAB	BUFFER+1[R0]	
			58			9E	D0	000C6	MOVL	@(SP)+, BUFF_FLAGS	1898
						02	11	000C9	BRB	10\$	1910
						58	D4	000CB	CLRL	BUFF_FLAGS	1914
		04	AE	FE70	CD	9E	000CD	9\$:	MOVAB	BUFFER, NAME_DESC+4	1916
			50			51	3C	000D3	MOVZWL	BUFF_SIZE, R0	1918
			6E	01	A6	40	9E	000D6	MOVAB	1(DIR_LEN)[R0], NAME_DESC	1921
						50	D7	000DB	DECL	R0	1924
			51			6D	9E	000DD	MOVAB	BUFFER+400, R1	
			52	FE72	CD	46	9E	000E0	MOVAB	BUFFER+2[DIR_LEN], R2	
			51			52	C2	000E6	SUBL2	R2, R1	
51		20	FE72	CD		50	2C	000E9	MOV3	R0, BUFFER+2, #32, R1, (R2)	1925
						62		000F0			
	FE71	CD	0110	CE		56	28	000F1	MOV3	DIR_LEN, DIRECTORY, BUFFER+1	1929
			FE70	CD		5B	8F	90	MOV	#91, BUFFER	1930
			FE71	CD	46	5D	8F	90	MOV	#93, BUFFER+1[DIR_LEN]	1931
						58	E9	00106	BLBC	BUFF_FLAGS, 11\$	1933
			51	00000190	8F	6E	C3	00109	SUBL3	NAME_DESC, #400, R1	1939
						50	9E	00111	MOVAB	BUFFER, R0	1940
51		20	6A	FE70	CD	11	2C	00116	MOV3	#17, (STR), #32, R1, @NAME_DESC[R0]	
						00	BE	40			
			6E			11	C0	0011E	ADDL2	#17, NAME_DESC	1941
				FE48	CD	9F	00121	11\$:	PUSHAB	SSNAME	1946
				04	AE	9F	00125		PUSHAB	NAME_DESC	
						02	FB	00128	CALLS	#2, SELECT_FILE	
						50	E9	0012D	BLBC	R0, 15\$	
						57	E9	00130	BLBC	CHANGE, 14\$	1953
			00000000G	00		00	FB	00133	CALLS	#0, LIST_EOL	1956
						FE48	CD	9F	PUSHAB	SSNAME	1961
						FE50	CD	9F	PUSHAB	SSNAME+8	
						F8	A9	9F	PUSHAB	-8(SSNAME_LEN)	
						FE63	CF	9F	PUSHAB	P.AAC	
			00000000G	00		04	FB	00149	CALLS	#4, LIST_FAO	
			00000000G	00		00	FB	00150	CALLS	#0, LIST_EOL	1962
				20	FE38	CD	91	00157	CMPB	VOLUME, #32	1969
						07	1B	0015C	BLEQU	12\$	
			50	FE38	CD	9E	0015E		MOVAB	VOLUME, R0	
						05	11	00163	BRB	13\$	
			50	FE83	CF	9E	00165	12\$:	MOVAB	P.AAE, R0	
						50	DD	0016A	PUSHL	R0	
						0C	DD	0016C	PUSHL	#12	
			7E	FE44	CD	3C	0016E	13\$:	MOVZWL	VOLUME+12, -(SP)	
				FE51	CF	9F	00173		PUSHAB	P.AAD	
			00000000G	00		04	FB	00177	CALLS	#4, LIST_FAO	
			00000000G	00		00	FB	0017E	CALLS	#0, LIST_EOL	1970
						57	D4	00185	CLRL	CHANGE	1971
						5E	DD	00187	PUSHL	SP	1977
						FE6B	CF	9F	PUSHAB	P.AAF	

LISTJOUR  
V04-000

List a journal file  
LIST\_JOURNAL - main journal list routine

C 3  
16-Sep-1984 00:10:02  
14-Sep-1984 11:53:55

VAX-11 Bliss-32 V4.0-742  
[BACKUP.SRC]LISTJOUR.B32;1

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(4)

00000000G 00  
00000000G 00

02 FB 0018D  
00 FB 00194  
FEAF 31 0019B 15%:  
7E D4 0019E 16%:  
01 FB 001A0  
04 001A7

CALLS #2, LIST\_FAO  
CALLS #0, LIST\_EOL  
BRW 1\$  
CLRL -(SP)  
CALLS #1, CLOSE\_JOURNAL  
RET

:  
: 1978  
: 1839  
: 1989  
: 1990

; Routine Size: 424 bytes, Routine Base: CODE + 0104

LISTJOUR  
V04-000

List a journal file  
LIST\_JOURNAL - main journal list routine

D 3  
16-Sep-1984 00:10:02  
14-Sep-1984 11:53:55

VAX-11 Bliss-32 V4.0-742  
[BACKUP.SRC]LISTJOUR.B32;1

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(5)

: 441 1991 1 END  
: 442 1992 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
COMMON	2124	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, OVR, NOPIC, ALIGN(2)
CODE	684	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	6	0	581	00:01.1

: Information: 1  
: Warnings: 0  
: Errors: 0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:LISTJOUR/OBJ=OBJ\$:LISTJOUR MSRC\$:LISTJOUR/UPDATE=(ENH\$:LISTJOUR)

: Size: 559 code + 2249 data bytes  
: Run Time: 00:23.3  
: Elapsed Time: 01:21.8  
: Lines/CPU Min: 5120  
: Lexemes/CPU-Min: 45974  
: Memory Used: 313 pages  
: Compilation Complete

0012 AH-BT13A-SE  
VAX/VMS V4.0

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